



US Qualification Criteria	Climate Zone	U-Value	SHGC		
 <p>Energy Star Version 7.0 Starting October 2023</p>	Northern	<=0.22	>=0.17	Prescriptive	
			=0.23	>=0.35	Equivalent Energy Performance
			=0.24	>=0.40	
			=0.25		
			=0.26		
	North-Central	<=0.25	<=0.40		
South-Central	<=0.28	<=0.23			
Southern	<=0.32	<=0.23			

Canadian Qualification Criteria	U-Value	or	Energy Rating
 <p>Energy Star Version 5.0 starting January 2020</p>	<=1.22		>=34
	Air Leakage <= 1.5 L/s/m2		

U-Value

A measurement of how much energy a material conducts. The lower the U-Value, the greater the insulating effect.

Solar Heat Gain Coefficient (SHGC)

Measures how well a window or door prevents heat from passing through it. The lower a window or door's SHGC, the less heat it allows to pass through it.

Visible Light Transmittance

The amount of light in the visible portion of the spectrum that passes through a glazing material.

Condensation Resistance Rating

Measures how well a window resists the formation of condensation on the inside surface. The higher the number the better resistance to condensation.

Energy Rating

A value demonstrating the balance between U-Value, SHGC and air leakage. The higher the number, the more efficient the product.

R-Value

A measurement of how much a material resists heat transfer. A higher R-Value means a greater insulating effect and a lower rate of heat flow out of the home. While **R-value** measures resistance to heat transfer, **U-value** measures the rate of heat transfer. In simple terms, **U-value** is the mathematical reciprocal of **R-value**; that is, **U = 1/R and R = 1/U**.

^a Total Unit calculations are derived from computer simulations that are then verified by 3rd party testing in accordance with NFRC 100, NFRC 200, and NFRC 500.

^b Published values reflect 3mm glass lite thicknesses.

ENERGY PERFORMANCE DATA														US ENERGY STAR V 7.0	CANADIAN ENERGY PERFORMANCE DATA			
Contemporary Flush Frame Awning Windows (8216)														US ENERGY STAR V 7.0	CANADIAN ENERGY PERFORMANCE DATA			
Grille Option	Glazing thickness	^a NFRC Total Unit Calculations ^b Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	N	NC	SC	S	U-Value (metric)	Maximum Air Leakage L/s/m2	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v5.0		
No GIA or SDL	3/4"	Clear Insul	WEA-N-287-01046-00001	0.46	0.54	0.56	48					2.61	0.6	0.05	14			
	3/4"	Insul Low-E	WEA-N-287-01047-00001	0.34	0.29	0.49	52					1.93	0.6	0.05	14			
	3/4"	Insul Low E w/Argon	WEA-N-287-01055-00001	0.31	0.29	0.49	55					1.76	0.6	0.05	18			
	3/4"	Passive Solar	WEA-N-287-01050-00001	0.34	0.47	0.54	52					1.93	0.6	0.05	25			
	3/4"	Passive Solar w/Argon	WEA-N-287-01058-00001	0.31	0.48	0.54	56					1.76	0.6	0.05	29			
	3/4"	Passive Solar Extreme	WEA-N-287-01051-00001	0.30	0.43	0.53	40					1.70	0.6	0.05	28			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-287-01059-00001	0.28	0.43	0.53	43					1.59	0.6	0.05	30			
	3/4"	Zo-e-shield 5	WEA-N-287-01048-00001	0.33	0.20	0.44	52					1.87	0.6	0.05	11			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-287-01056-00001	0.30	0.19	0.44	56				Y	1.70	0.6	0.05	14			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-287-01049-00001	0.29	0.19	0.43	41				Y	1.65	0.6	0.05	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-287-01057-00001	0.27	0.19	0.43	44			Y	Y	1.53	0.6	0.05	17			
	1"	Zo-e-shield 6	WEA-N-287-01128-00001	0.33	0.19	0.44	51					1.87	0.6	0.05	10			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-287-01136-00001	0.30	0.19	0.44	54				Y	1.70	0.6	0.05	14			
	1"	Zo-e SafeGuard Certified	WEA-N-287-01133-00001	0.33	0.19	0.43	52					1.87	0.6	0.05	10			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-287-01141-00001	0.29	0.19	0.43	55				Y	1.65	0.6	0.05	15			
	1"	Zo-e-shield 7	WEA-N-287-01084-00001	0.27	0.18	0.35	64			Y	Y	1.53	0.6	0.05	17			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-287-01096-00001	0.24	0.18	0.35	67			Y	Y	Y	1.36	0.6	0.05	21		
	3/4"	Insul Low-E 240	WEA-N-287-01052-00001	0.34	0.18	0.27	52						1.93	0.6	0.05	8		
	3/4"	Insul Low-E 240 w/Argon	WEA-N-287-01060-00001	0.31	0.18	0.27	55				Y	1.76	0.6	0.05	12			
	3/4"	Insul Low-E 340	WEA-N-287-01053-00001	0.33	0.13	0.27	52						1.87	0.6	0.05	6		
	3/4"	Insul Low-E 340 w/Argon	WEA-N-287-01061-00001	0.30	0.13	0.27	56				Y	1.70	0.6	0.05	10			
3/4"	Bronze Low E	WEA-N-287-01047-00011	0.34	0.28	0.36	52						1.93	0.6	0.05	14			
3/4"	Bronze Low E w/Argon	WEA-N-287-01055-00011	0.31	0.28	0.36	55						1.76	0.6	0.05	18			
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-287-01046-00002	0.46	0.49	0.51	48					2.61	0.6	0.05	11			
	3/4"	Insul Low-E	WEA-N-287-01047-00002	0.34	0.27	0.44	52					1.93	0.6	0.05	13			
	3/4"	Insul Low E w/Argon	WEA-N-287-01055-00002	0.31	0.26	0.44	55					1.76	0.6	0.05	16			
	3/4"	Passive Solar	WEA-N-287-01050-00002	0.34	0.43	0.49	52					1.93	0.6	0.05	22			
	3/4"	Passive Solar w/Argon	WEA-N-287-01058-00002	0.31	0.43	0.49	56					1.76	0.6	0.05	26			
	3/4"	Passive Solar Extreme	WEA-N-287-01051-00002	0.30	0.39	0.48	40					1.70	0.6	0.05	25			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-287-01059-00002	0.28	0.39	0.48	43					1.59	0.6	0.05	28			
	3/4"	Zo-e-shield 5	WEA-N-287-01048-00002	0.33	0.18	0.40	52					1.87	0.6	0.05	9			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-287-01056-00002	0.30	0.18	0.40	56				Y	1.70	0.6	0.05	13			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-287-01049-00002	0.29	0.18	0.39	41				Y	1.65	0.6	0.05	14			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-287-01057-00002	0.27	0.17	0.39	44			Y	Y	1.53	0.6	0.05	16			
	1"	Zo-e-shield 6	WEA-N-287-01128-00002	0.33	0.18	0.39	51					1.87	0.6	0.05	9			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-287-01136-00002	0.30	0.18	0.39	54				Y	1.70	0.6	0.05	13			
	1"	Zo-e SafeGuard Certified	WEA-N-287-01133-00002	0.33	0.18	0.39	52					1.87	0.6	0.05	9			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-287-01141-00002	0.29	0.17	0.39	55				Y	1.65	0.6	0.05	14			
	1"	Zo-e-shield 7	WEA-N-287-01085-00001	0.27	0.16	0.32	64			Y	Y	1.53	0.6	0.05	16			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-287-01097-00001	0.24	0.16	0.32	67			Y	Y	Y	1.36	0.6	0.05	19		
	3/4"	Insul Low-E 240	WEA-N-287-01052-00002	0.34	0.17	0.25	52						1.93	0.6	0.05	7		
	3/4"	Insul Low-E 240 w/Argon	WEA-N-287-01060-00002	0.31	0.16	0.25	55				Y	1.76	0.6	0.05	11			
	3/4"	Insul Low-E 340	WEA-N-287-01053-00002	0.33	0.12	0.24	52						1.87	0.6	0.05	6		
	3/4"	Insul Low-E 340 w/Argon	WEA-N-287-01061-00002	0.30	0.12	0.24	56				Y	1.70	0.6	0.05	10			
3/4"	Bronze Low E	WEA-N-287-01047-00012	0.34	0.25	0.33	52						1.93	0.6	0.05	12			
3/4"	Bronze Low E w/Argon	WEA-N-287-01055-00012	0.31	0.25	0.33	55						1.76	0.6	0.05	16			
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-287-01046-00003	0.46	0.44	0.46	48					2.61	0.6	0.05	8			
	3/4"	Insul Low-E	WEA-N-287-01047-00003	0.34	0.24	0.40	52					1.93	0.6	0.05	11			
	3/4"	Insul Low E w/Argon	WEA-N-287-01055-00003	0.31	0.24	0.40	55					1.76	0.6	0.05	15			
	3/4"	Passive Solar	WEA-N-287-01050-00003	0.34	0.39	0.44	52					1.93	0.6	0.05	20			
	3/4"	Passive Solar w/Argon	WEA-N-287-01058-00003	0.31	0.39	0.44	56					1.76	0.6	0.05	24			
	3/4"	Passive Solar Extreme	WEA-N-287-01051-00003	0.30	0.36	0.43	40					1.70	0.6	0.05	23			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-287-01059-00003	0.28	0.36	0.43	43					1.59	0.6	0.05	26			
	3/4"	Zo-e-shield 5	WEA-N-287-01048-00003	0.33	0.16	0.36	52					1.87	0.6	0.05	8			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-287-01056-00003	0.30	0.16	0.36	56				Y	1.70	0.6	0.05	12			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-287-01049-00003	0.29	0.16	0.35	41				Y	1.65	0.6	0.05	13			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-287-01057-00003	0.27	0.16	0.35	44			Y	Y	1.53	0.6	0.05	16			
	1"	Zo-e-shield 6	WEA-N-287-01128-00003	0.33	0.16	0.36	51					1.87	0.6	0.05	8			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-287-01136-00003	0.30	0.16	0.36	54				Y	1.70	0.6	0.05	12			
	1"	Zo-e SafeGuard Certified	WEA-N-287-01133-00003	0.33	0.16	0.35	52					1.87	0.6	0.05	8			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-287-01141-00003	0.29	0.16	0.35	55				Y	1.65	0.6	0.05	13			
	1"	Zo-e-shield 7	WEA-N-287-01085-00002	0.27	0.15	0.29	64			Y	Y	1.53	0.6	0.05	15			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-287-01097-00002	0.24	0.15	0.29	67			Y	Y	Y	1.36	0.6	0.05	19		
	3/4"	Insul Low-E 240	WEA-N-287-01052-00003	0.34	0.15	0.22	52						1.93	0.6	0.05	6		
	3/4"	Insul Low-E 240 w/Argon	WEA-N-287-01060-00003	0.31	0.15	0.22	55				Y	1.76	0.6	0.05	10			
	3/4"	Insul Low-E 340	WEA-N-287-01053-00003	0.33	0.11	0.22	52						1.87	0.6	0.05	5		
	3/4"	Insul Low-E 340 w/Argon	WEA-N-287-01061-00003	0.30	0.11	0.22	56				Y	1.70	0.6	0.05	9			
3/4"	Bronze Low E	WEA-N-287-01047-00013	0.34	0.23	0.30	52						1.93	0.6	0.05	11			
3/4"	Bronze Low E w/Argon	WEA-N-287-01055-00013	0.31	0.23	0.30	55				Y	1.76	0.6	0.05	15				